

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: APR 15 1988

SUBJECT: Evaluation of Montgomery/Phillips Landfill, Illinois for Removal  
Action

FROM: *Jacqueline vanBosse* / *Nicholas J. Longo*  
Jacqueline vanBosse/Nicholas J. Longo, On-Scene Coordinators  
Western Response Section

TO: Michael J. Strimbu, Chief  
Western Response Section

On March 2, 1988, we accompanied the Technical Assistance Team (TAT) to evaluate the subject site for a possible removal action. The site did not physically appear to present a hazard to local residents. This apparent demolition debris landfill accepted some sewage sludge but the surface of the fill was in relatively good shape.

Two residential and one industrial well were sampled to determine if any contaminants were in the drinking water. The Field Investigation Team reported that PCBs were previously found in one of the residential wells. This was not confirmed by our sampling effort. In fact, all VDAs, BNAs, pesticides and PCBs are below detection limits. The results for metals do not indicate elevated levels.

Based on our site assessment and water analysis, we recommend that this site not be considered for a removal.

Attachments

EPA Region 5 Records Ctr.



362150

CHAIN OF CUSTODY RECORD

PROJ. NO. 88WTD4		PROJECT NAME Montgomery Phillips / P.L.				NO. OF CONTAINERS	ANALYSIS				REMARKS		
SAMPLERS: (Signature) A. Bahub							VOC	Organics GC/MS ABR	Particulates PCB	HSE Metals	Cyanide Total	P-O # 22466 Custody seal # 27459 27460 REMARKS Air Bill # 4990658816	
STA. NO.	1988 DATE	TIME	COMP.	GRAB	STATION LOCATION						EPA TAG #'s		
579	3/2	1108		✓	Phillips Residence	2-40ml	X				5-022999, 023000		
<del>579</del>	<del>3/2</del>	<del>1105</del>		<del>✓</del>	<del>Phillips Residence</del>	<del>2-80ml</del>	<del>X</del>				<del>5-022997, 022998 B</del>		
579	3/2	1106		✓	Phillips Residence	1-1l			X		5-022995		
579	3/2	1106		✓	Phillips Residence	1-1l		X			5-022996		
580	3/2	1140		✓	D+N Trucking	2-40ml	X				5-022993, 022994		
580	3/2	1135		✓	D+N Trucking	2-80ml	X				5-022991, 022992		
580	3/2	1130		✓	D+N Trucking	1-1l			X		5-022989		
580	3/2	1130		✓	D+N Trucking	1-1l		X			5-022990		
581	3/2	1140		✓	D+N Trucking Well 2	2-40ml	X				5-022988, 022987		
<del>582</del> 581	3/2	1142		✓	D+N Trucking Well 2	2-80ml	X				5-022985, 022986		
<del>583</del> 581	3/2	1144		✓	D+N Trucking Well 2	1-1l			X		5-022984		
581	3/2	1144		✓	D+N Trucking Well 2	1-1l			X		5-022983		
582	3/2	1215		✓	#10 Passadena	2-40ml	X				5-022981, 022982		
582	3/2	1217		✓	#10 Passadena	2-80ml	X				5-022979, 022980		
582	3/2	1220		✓	#10 Passadena	1-1l		X			5-022978		
Relinquished by: (Signature) A. Bahub			Date / Time 03/03/88 16:30		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)			Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by (Signature)			Date / Time		Received for Laboratory by: (Signature) Keith S. Kline			Date / Time 3/4/88 16:00		Remarks JAB ATEC Associates, Ltd Inc. 5150 East 65th Street Indianapolis, IN 46220 AKA Keith Kline			

*Mo-Lenny Phillips 1-11*

CHAIN OF CUSTODY RECORD

PROJ. NO. <b>88NT04</b>		PROJECT NAME: <b>[REDACTED]</b>				NO. OF CON- TAINERS	<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p><i>VOC</i></p> <p><i>PHENOLS &amp; THS A/B</i></p> <p><i>RESIDUES PCB</i></p> <p><i>HSC Metals</i></p> <p><i>Cyanide Total</i></p> </div> <div style="width: 50%;"> <p>P.O # 22466</p> <p>Custody seal # 27461</p> <p>27430</p> <p>REMARKS 469.</p> <p>Air Bill # 4990658816</p> </div> </div>									
SAMPLERS: (Signature) <i>J Bahall</i>																
STA. NO.	1988 DATE	TIME	COMP	ES CODE	STATION LOCATION								EPA TAG #'s			
582	3/2	1220	V		#10 Pasadena	1-1L										5-022977
5-83	3/2	1400	V		Bob's Residence, 330 Larch LN	2-40ml	X									5-022975, 022976
5-83	3/2	1400	V		Bob's Residence, 330 Larch LN	2-80ml		X								5-022974, 022973
5-83	3/2	1400	V		Bob's Residence, 330 Larch LN	1-1L				X						5-022971
583	3/2	1100	V		Bob's Residence, 330 Larch LN	1-1L				X						5-022972
579	3/2	1105	V		Phillips Residence	2-80ml		X								5-022997, 022998
<i>Blank</i>																

Relinquished by: (Signature) <i>J Bahall</i>	Date / Time 03/03/88 16:30	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>Keith S. Kline</i>	Date / Time 3/4/88 16:00	Remarks <i>LAB</i> ATEC Associate Ltd, Inc 5150 East 65th St. Indianapolis, IN - 46220 Attn: Keith Kline	

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

# ATEC Environmental Services

A Division of ATEC Associates, Inc.  
5150 East 65th Street  
Indianapolis, Indiana 46220-4871  
(317) 849-4990, Telex 221-500 ASAS

March 17, 1988

REC

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Solid & Hazardous Waste Site Assessments  
Remedial Design & Construction  
Underground Tank Management  
Asbestos Surveys & Analysis  
Hydrogeologic Investigations & Monitoring  
Analytical Testing / Chemistry  
Industrial Hygiene / Hazard Communication  
Environmental Audits & Permitting  
Exploratory Drilling & Monitoring Wells

Ms. Melody Sullivan  
Roy F. Weston, Inc.  
Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Re: Five Water VOA, BNA, Pesticide,  
PCB, HSL Metals  
U.S. EPA Methods 624, 625, 608, 7000 Series  
Project Number 88WT04  
P.O. Number 22466  
ATEC Project Number 21-88073

Dear Ms. Sullivan:

Enclosed are the results of the Chemical Analyses for the five water samples which were submitted to the ATEC Environmental/Analytical Testing Division on March 4, 1988. The volatile samples were analyzed on a Finnigan 1020 OWA GC/MS/DS system, complete with Superincos Software, via U.S. EPA Method 624 for Purgeable Organic Compounds. Prior to analysis the system was tuned against Bromofluorobenzene and calibrated with the appropriate standard. Semi-volatile analyses were performed on a Finnigan Incos 50 GC/MS/DS system via U.S. EPA Method 625 for Extractable Organic Compounds. Prior to analysis, this system was tuned against Decafluorotriphenylphosphine and calibrated with the appropriate standard. The PCB and Pesticide analyses were performed on a Varian 3700 Gas Chromatograph using Electron Capture Detection via U.S. EPA Method 608. Metals were analyzed on a Varian SpectrAA-10 Atomic Absorption Spectrophotometer according to the 7000 series of the methods outlined in SW 846.

All associated Chromatograms and Spectral information will be maintained in the Testing Division files, a copy of which can be forwarded to you upon request. After a thirty-day period, a fee will be assessed for this additional information.

Samples and extracts will be held for periods of thirty and forty-five days, respectively, following the date of this report, after which re-analysis will require the submission of fresh samples. It has been a pleasure serving you and, as always, if there are any questions concerning these results or the ATEC Policies, please feel free to contact me.

Respectfully submitted,

ATEC Associates, Inc.

*Keith S. Kline*

Keith S. Kline  
Environmental/Analytical  
Testing Division

ATEC Associates, Inc.  
 5150 East 65th Street  
 Indianapolis, IN 46220

REPORT OF TEST RESULTS

Date of report: March 18, 1988  
 Client: Weston Sper  
 Client Address: River Center  
 111 North Canal Street 8th Floor, Suite 855  
 Chicago, IL 60606

ATEC Project Number: 21-88073  
 Client Sample Identification: PO #22466, Project #88WTO4  
 Sample Matrix: Water  
 Date Sample Collected: March 2, 1988  
 Date Sample Received: March 2, 1988  
 Analyst: TO

Page 1 of 2  
 Method No.  
 (EPA 600/  
 4-79-020)

Metals,	Concentration (mg/l)				Quantitation Limit (mg/l)	Method No. (EPA 600/ 4-79-020)
	S 79	S-80	Dup S-80	S-81		
Aluminum	<0.5	<0.5	<0.5	<0.5	0.5	202.1
Antimony	<0.5	<0.5	<0.5	<0.5	0.5	204.1
Arsenic	<0.02	<0.02	<0.02	<0.02	0.02	206.3
Barium	<1.0	<1.0	<1.0	<1.0	1.0	208.1
Beryllium	<0.5	<0.5	<0.5	<0.5	0.5	210.1
Cadmium	<0.01	0.03	0.03	<0.02	0.01	213.1
Calcium	127	1.5	15	15	0.10	215.1
Chromium	<0.05	<0.05	<0.05	<0.05	0.05	218.1
Cobalt	<0.2	<0.02	<0.2	<0.2	0.2	219.1
Copper	<0.05	<0.05	<0.05	<0.05	0.05	220.1
Iron	7.7	<0.2	<0.2	<0.2	0.2	236.1
Lead	<0.05	<0.05	<0.05	<0.05	0.05	239.1
Manganese	0.17	<0.10	<0.1	<0.10	0.10	243.1
Magnesium	82	5.4	5.7	5.6	0.05	242.1
Mercury	<0.01	<0.01	<0.01	<0.01	0.01	245.1
Nickel	<0.10	<0.10	<0.1	<0.10	0.10	249.1
Potassium	17	7	7	7	0.5	258.1
Selenium	<0.02	<0.02	<0.02	<0.02	0.02	270.3
Silver	<0.05	<0.05	<0.05	<0.05	0.05	272.1
Sodium	41	147	171	167	0.1	273.1
Tin	<1.0	<1.0	<1.0	<1.0	1.0	282.1
Thallium	<0.5	<0.5	<0.5	<0.5	0.5	279.1
Vanadium	<0.5	<0.5	<0.5	<0.5	0.5	286.1
Zinc	1.0	<0.05	<0.05	<0.05	0.05	289.1
Cyanide	<0.01	<0.01	<0.01	<0.01	0.01	335.2

ATEC Associates, Inc.  
5150 East 65th Street  
Indianapolis, IN 46220

REPORT OF TEST RESULTS

Date of report: March 18, 1988

Client: Weston Sper

Client Address: River Center

111 North Canal Street 8th Floor, Suite 855  
Chicago, IL 60606

ATEC Project Number: 21-88073

Client Sample Identification: PO #22466, Project #88WTO4

Sample Matrix: Water

Date Sample Collected: March 2, 1988

Date Sample Received: March 2, 1988

Analyst: TO

Page 2 of 2  
Method No.  
(EPA 600/  
4-79-020)

Metals,	Concentration (mg/l)				Quantitation Limit (mg/l)	Method No. (EPA 600/ 4-79-020)
	S 82	S-83	Dup S-83	Spike S-83		
Aluminum	<0.5	<0.5	<0.5		0.5	202.1
Antimony	<0.5	<0.5	<0.5		0.5	204.1
Arsenic	<0.02	<0.02		80%	0.02	206.3
Barium	<1.0	<1.0		83%	1.0	208.1
Beryllium	<0.5	<0.5	<0.5		0.5	210.1
Cadmium	<0.01	0.03		104%	0.01	213.1
Calcium	162	0.22	NA		0.10	215.1
Chromium	<0.05	<0.05		127%	0.05	218.1
Cobalt	<0.2	<0.2	<0.2		0.2	219.1
Copper	<0.05	<0.05	<0.05		0.05	220.1
Iron	3.7	<0.2	<0.2		0.2	236.1
Lead	<0.05	<0.05		124%	0.05	239.1
Manganese	<0.10	<0.10	<0.1		0.10	243.1
Magnesium	99	<0.05	<0.05		0.05	242.1
Mercury	<0.01	<0.01		90%	0.01	245.1
Nickel	<0.10	<0.10	<0.1		0.10	249.1
Potassium	5	<0.5	NA		0.5	258.1
Selenium	<0.02	<0.02		80%	0.02	270.3
Silver	<0.05	<0.05		112%	0.05	272.1
Sodium	57	<0.50	NA		0.1	273.1
Tin	<1.0	<1.0	<1.0		1.0	282.1
Thallium	<0.5	<0.5	<0.5		0.5	279.1
Vanadium	<0.5	<0.5	<0.5		0.5	286.1
Zinc	<0.05	<0.05	<0.05		0.05	289.1
Cyanide	<0.01	<0.01			0.01	335.2

Respectfully submitted,  
ATEC Associates, Inc.

  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-79  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 9, 1988  
Date Sample Analyzed: March 11, 1988

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. 80477-1

1 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Aldrin	309-00-2	<1	1
Dieldrin	60-57-1	<1	1
Chlordane	57-74-9	<1	1
4,4'-DDT	50-29-3	<1	1
4,4'-DDE	72-55-9	<1	1
4,4'-DDD	72-54-8	<1	1
Endosulfan I	959-98-8	<1	1
Endosulfan II	33213-65-9	<1	1
Heptachlor epoxide	1024-57-3	<1	1
alpha-BHC	319-84-6	<1	1
beta-BHC	319-85-7	<1	1
gamma-BHC (Lindane)	58-89-9	<1	1
delta-BHC	319-86-8	<1	1

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. 80477-1

2 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
PCB-1242	53469-21-9	<1	1
PCB-1254	11097-69-1	<1	1
PCB-1221	11104-28-2	<1	1
PCB-1232	11141-16-5	<1	1
PCB-1248	12672-29-6	<1	1
PCB-1260	11096-82-5	<1	1
PCB-1016	12674-11-2	<1	1
Toxaphene	8001-35-2	<1	1
Endosulfan Sulfate	1031-07-8	<1	1
Endrin	72-20-8	<1	1
Endrin Aldehyde	53494-70-5	<1	1
Heptachlor	76-44-8	<1	1

\* Analyte detected at levels below Quantitation Limit  
Analytical Method: EPA Method 608

Analyst: J. Finks  
Verified:  
Date Reported: March 14, 1988

Respectfully submitted,

*Keith S. Kline*  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-79  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Analyzed: March 10, 1988

VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477A

1 of 2

<u>Analyte</u>	<u>CAS Number</u>	<u>Concentration (ug/L)</u>	<u>Quantitation Limit (ug/L)</u>
Chloromethane	74-87-3	<10	10
Bromomethane	74-83-9	<10	10
Vinyl Chloride	75-01-4	<10	10
Chloroethane	75-00-3	<10	10
Methylene Chloride	75-09-2	< 5*	5
Acetone	67-64-1	<10*	10
Carbon Disulfide	75-15-0	< 5	5
1,1-Dichloroethene	75-35-4	< 5	5
1,1 Dichloroethane	75-35-3	< 5	5
Trans-1,2-Dichloroethene	156-60-5	< 5	5
Chloroform	67-66-3	< 5	5
1,2-Dichloroethane	107-06-2	< 5	5
2-Butanone	78-93-3	<10*	10
1,1,1-Trichloroethane	71-55-6	< 5	5
Carbon Tetrachloride	56-23-5	< 5	5
Vinyl Acetate	108-05-4	<10	10
Bromodichloromethane	75-27-4	< 5	5
1,2-Dichloropropane	78-87-5	< 5	5

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477A

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Trans-1, 3-Dichloropropene	10061-02-6	< 5	5
Trichloroethene	79-01-6	< 5*	5
Dibromochloromethane	124-48-1	< 5	5
1,1,2-Trichloroethane	79-00-5	< 5	5
Benzene	71-43-2	< 5	5
cis-1,3-Dichloropropene	10061-01-5	< 5	5
2-Chloroethylvinylether	110-75-8	<10	10
Bromoform	75-25-2	< 5	5
4-Methyl-2-Pentanone	591-78-6	<10	10
2-Hexanone	108-10-1	<10	10
Tetrachloroethene	127-18-4	< 5	5
1,1,2,2-Tetrachloroethane	79-34-5	< 5	5
Toluene	108-88-3	< 5*	5
Chlorobenzene	108-90-7	< 5	5
Ethylbenzene	100-41-4	< 5	5
Styrene	100-42-5	< 5	5
Total Xylenes		< 5	5

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 624

Analyst: K. Kline

Verified:

Date Reported: March 15, 1988

Respectfully submitted,

*Kath S. Kline*  
 Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-79  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 11, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477A

1 of 3

<u>Analyte</u>	<u>CAS Number</u>	<u>Concentration (ug/L)</u>	<u>Quantitation Limit (ug/L)</u>
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477A

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477A

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a)anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10*	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10	10
Benzo(b)fluoranthene	205-99-2	<10	10
Benzo(k)fluoranthene	207-08-9	<10	10
Benzo(a)pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

*Keith S. Kline*

Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-79 II  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 16, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477A2

1 of 3

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation  
Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477A2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10*	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477A2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10*	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a)anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10*	10
Benzo(b)fluoranthene	205-99-2	<10	10
Benzo(k)fluoranthene	207-08-9	<10	10
Benzo(a)pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

Keith S. Kline  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-80  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 9, 1988  
Date Sample Analyzed: March 9, 1988

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. 80477-2

1 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Aldrin	309-00-2	<1	1
Dieldrin	60-57-1	<1	1
Chlordane	57-74-9	<1	1
4,4'-DDT	50-29-3	<1	1
4,4'-DDE	72-55-9	<1	1
4,4'-DDD	72-54-8	<1	1
Endosulfan I	959-98-8	<1	1
Endosulfan II	33213-65-9	<1	1
Heptachlor epoxide	1024-57-3	<1	1
alpha-BHC	319-84-6	<1	1
beta-BHC	319-85-7	<1	1
gamma-BHC (Lindane)	58-89-9	<1	1
delta-BHC	319-86-8	<1	1

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. 80477-2

2 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
PCB-1242	53469-21-9	<1	1
PCB-1254	11097-69-1	<1	1
PCB-1221	11104-28-2	<1	1
PCB-1232	11141-16-5	<1	1
PCB-1248	12672-29-6	<1	1
PCB-1260	11096-82-5	<1	1
PCB-1016	12674-11-2	<1	1
Toxaphene	8001-35-2	<1	1
Endosulfan Sulfate	1031-07-8	<1	1
Endrin	72-20-8	<1	1
Endrin Aldehyde	53494-70-5	<1	1
Heptachlor	76-44-8	<1	1

\* Analyte detected at levels below Quantitation Limit  
Analytical Method: EPA Method 608

Analyst: J. Finks  
Verified:  
Date Reported: March 14, 1988

Respectfully submitted,

Keith S. Kline  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-80  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Analyzed: March 10, 1988

VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477B

1 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Chloromethane	74-87-3	<10	10
Bromomethane	74-83-9	<10	10
Vinyl Chloride	75-01-4	<10	10
Chloroethane	75-00-3	<10	10
Methylene Chloride	75-09-2	< 5*	5
Acetone	67-64-1	<10*	10
Carbon Disulfide	75-15-0	< 5	5
1,1-Dichloroethene	75-35-4	< 5	5
1,1 Dichloroethane	75-35-3	< 5	5
Trans-1,2-Dichloroethene	156-60-5	< 5	5
Chloroform	67-66-3	< 5	5
1,2-Dichloroethane	107-06-2	< 5	5
2-Butanone	78-93-3	<10*	10
1,1,1-Trichloroethane	71-55-6	< 5	5
Carbon Tetrachloride	56-23-5	< 5	5
Vinyl Acetate	108-05-4	<10	10
Bromodichloromethane	75-27-4	< 5	5
1,2-Dichloropropane	78-87-5	< 5 .	5

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477B

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Trans-1, 3-Dichloropropene	10061-02-6	< 5	5
Trichloroethene	79-01-6	< 5*	5
Dibromochloromethane	124-48-1	< 5	5
1,1,2-Trichloroethane	79-00-5	< 5	5
Benzene	71-43-2	< 5	5
cis-1,3-Dichloropropene	10061-01-5	< 5	5
2-Chloroethylvinylether	110-75-8	<10	10
Bromoform	75-25-2	< 5	5
4-Methyl-2-Pentanone	591-78-6	<10	10
2-Hexanone	108-10-1	<10	10
Tetrachloroethene	127-18-4	< 5	5
1,1,2,2-Tetrachloroethane	79-34-5	< 5	5
Toluene	108-88-3	< 5*	5
Chlorobenzene	108-90-7	< 5	5
Ethylbenzene	100-41-4	< 5	5
Styrene	100-42-5	< 5	5
Total Xylenes		< 5	5

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 624

Analyst: K. Kline

Verified:

Date Reported: March 15, 1988

Respectfully submitted,

Keith S. Kline  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-80  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 14, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477B

1 of 3

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10*	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation  
Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477B

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477B

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a)anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10	10
Benzo(b)fluoranthene	205-99-2	<10	10
Benzo(k)fluoranthene	207-08-9	<10	10
Benzo(a)pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

*Kath S. Kline*  
 Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-80 II  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 16, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477B2

1 of 3

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10*	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477B2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10*	10
Naphthalene	91-20-3	<10*	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477B2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10*	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a)anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10	10
Benzo(b)fluoranthene	205-99-2	<10	10
Benzo(k)fluoranthene	207-08-9	<10	10
Benzo(a)pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

Keith S. Blaine  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-81  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 9, 1988  
Date Sample Analyzed: March 9, 1988

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. 80477-3

1 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Aldrin	309-00-2	<1	1
Dieldrin	60-57-1	<1	1
Chlordane	57-74-9	<1	1
4,4'-DDT	50-29-3	<1	1
4,4'-DDE	72-55-9	<1	1
4,4'-DDD	72-54-8	<1	1
Endosulfan I	959-98-8	<1	1
Endosulfan II	33213-65-9	<1	1
Heptachlor epoxide	1024-57-3	<1	1
alpha-BHC	319-84-6	<1	1
beta-BHC	319-85-7	<1	1
gamma-BHC (Lindane)	58-89-9	<1	1
delta-BHC	319-86-8	<1	1

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. 80477-3

2 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
PCB-1242	53469-21-9	<1	1
PCB-1254	11097-69-1	<1	1
PCB-1221	11104-28-2	<1	1
PCB-1232	11141-16-5	<1	1
PCB-1248	12672-29-6	<1	1
PCB-1260	11096-82-5	<1	1
PCB-1016	12674-11-2	<1	1
Toxaphene	8001-35-2	<1	1
Endosulfan Sulfate	1031-07-8	<1	1
Endrin	72-20-8	<1	1
Endrin Aldehyde	53494-70-5	<1	1
Heptachlor	76-44-8	<1	1

\* Analyte detected at levels below Quantitation Limit  
Analytical Method: EPA Method 608

Analyst: J. Finks  
Verified:  
Date Reported: March 14, 1988

Respectfully submitted,

Keith S. Klein  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-81  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Analyzed: March 10, 1988

VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477C

1 of 2

<u>Analyte</u>	<u>CAS Number</u>	<u>Concentration (ug/L)</u>	<u>Quantitation Limit (ug/L)</u>
Chloromethane	74-87-3	<10	10
Bromomethane	74-83-9	<10	10
Vinyl Chloride	75-01-4	<10	10
Chloroethane	75-00-3	<10	10
Methylene Chloride	75-09-2	< 5*	5
Acetone	67-64-1	<10*	10
Carbon Disulfide	75-15-0	< 5	5
1,1-Dichloroethene	75-35-4	< 5	5
1,1 Dichloroethane	75-35-3	< 5	5
Trans-1,2-Dichloroethene	156-60-5	< 5	5
Chloroform	67-66-3	< 5	5
1,2-Dichloroethane	107-06-2	< 5	5
2-Butanone	78-93-3	<10*	10
1,1,1-Trichloroethane	71-55-6	< 5	5
Carbon Tetrachloride	56-23-5	< 5	5
Vinyl Acetate	108-05-4	<10	10
Bromodichloromethane	75-27-4	< 5	5
1,2-Dichloropropane	78-87-5	< 5	5

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477C

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Trans-1, 3-Dichloropropene	10061-02-6	< 5	5
Trichloroethene	79-01-6	< 5	5
Dibromochloromethane	124-48-1	< 5	5
1,1,2-Trichloroethane	79-00-5	< 5	5
Benzene	71-43-2	< 5	5
cis-1,3-Dichloropropene	10061-01-5	< 5	5
2-Chloroethylvinylether	110-75-8	<10	10
Bromoform	75-25-2	< 5	5
4-Methyl-2-Pentanone	591-78-6	<10	10
2-Hexanone	108-10-1	<10	10
Tetrachloroethene	127-18-4	< 5	5
1,1,2,2-Tetrachloroethane	79-34-5	< 5	5
Toluene	108-88-3	< 5*	5
Chlorobenzene	108-90-7	< 5	5
Ethylbenzene	100-41-4	< 5	5
Styrene	100-42-5	< 5	5
Total Xylenes		< 5	5

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 624

Analyst: K. Kline

Verified:

Date Reported: March 15, 1988

Respectfully submitted,

*Keith S. Kline*

Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-81  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 11, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477C

1 of 3

<u>Analyte</u>	<u>CAS Number</u>	<u>Concentration (ug/L)</u>	<u>Quantitation Limit (ug/L)</u>
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477C

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10*	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10*	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477C

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10*	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a)anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10*	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10	10
Benzo(b)fluoranthene	205-99-2	<10	10
Benzo(k)fluoranthene	207-08-9	<10	10
Benzo(a)pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

Keith S. Kline  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-81 II  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 16, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477C2

1 of 3

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation  
Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477C2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10*	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477C2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a)anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10*	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10	10
Benzo(b)fluoranthene	205-99-2	<10	10
Benzo(k)fluoranthene	207-08-9	<10	10
Benzo(a)pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

*Keith S. Kline*  
 Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-82  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 9, 1988  
Date Sample Analyzed: March 9, 1988

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. 80477-4

1 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Aldrin	309-00-2	<1	1
Dieldrin	60-57-1	<1	1
Chlordane	57-74-9	<1	1
4,4'-DDT	50-29-3	<1	1
4,4'-DDE	72-55-9	<1	1
4,4'-DDD	72-54-8	<1	1
Endosulfan I	959-98-8	<1	1
Endosulfan II	33213-65-9	<1	1
Heptachlor epoxide	1024-57-3	<1	1
alpha-BHC	319-84-6	<1	1
beta-BHC	319-85-7	<1	1
gamma-BHC (Lindane)	58-89-9	<1	1
delta-BHC	319-86-8	<1	1

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. 80477-4

2 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
PCB-1242	53469-21-9	<1	1
PCB-1254	11097-69-1	<1	1
PCB-1221	11104-28-2	<1	1
PCB-1232	11141-16-5	<1	1
PCB-1248	12672-29-6	<1	1
PCB-1260	11096-82-5	<1	1
PCB-1016	12674-11-2	<1	1
Toxaphene	8001-35-2	<1	1
Endosulfan Sulfate	1031-07-8	<1	1
Endrin	72-20-8	<1	1
Endrin Aldehyde	53494-70-5	<1	1
Heptachlor	76-44-8	<1	1

\* Analyte detected at levels below Quantitation Limit  
Analytical Method: EPA Method 608

Analyst: J. Finks  
Verified:  
Date Reported: March 14, 1988

Respectfully submitted,

Keith S. Klein  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-82  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Analyzed: March 10, 1988

**VOLATILE COMPOUNDS**  
**ANALYTICAL RESULTS**

ATEC Lab No. 80477D

1 of 2

<u>Analyte</u>	<u>CAS Number</u>	<u>Concentration (ug/L)</u>	<u>Quantitation Limit (ug/L)</u>
Chloromethane	74-87-3	<10	10
Bromomethane	74-83-9	<10	10
Vinyl Chloride	75-01-4	<10	10
Chloroethane	75-00-3	<10	10
Methylene Chloride	75-09-2	< 5*	5
Acetone	67-64-1	<10*	10
Carbon Disulfide	75-15-0	< 5	5
1,1-Dichloroethene	75-35-4	< 5	5
1,1 Dichloroethane	75-35-3	< 5	5
Trans-1,2-Dichloroethene	156-60-5	< 5	5
Chloroform	67-66-3	< 5	5
1,2-Dichloroethane	107-06-2	< 5	5
2-Butanone	78-93-3	<10*	10
1,1,1-Trichloroethane	71-55-6	< 5	5
Carbon Tetrachloride	56-23-5	< 5	5
Vinyl Acetate	108-05-4	<10	10
Bromodichloromethane	75-27-4	< 5	5
1,2-Dichloropropane	78-87-5	< 5	5

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477D

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Trans-1, 3-Dichloropropene	10061-02-6	< 5	5
Trichloroethene	79-01-6	< 5	5
Dibromochloromethane	124-48-1	< 5	5
1,1,2-Trichloroethane	79-00-5	< 5	5
Benzene	71-43-2	< 5	5
cis-1,3-Dichloropropene	10061-01-5	< 5	5
2-Chloroethylvinylether	110-75-8	<10	10
Bromoform	75-25-2	< 5	5
4-Methyl-2-Pentanone	591-78-6	<10	10
2-Hexanone	108-10-1	<10	10
Tetrachloroethene	127-18-4	< 5	5
1,1,2,2-Tetrachloroethane	79-34-5	< 5	5
Toluene	108-88-3	< 5*	5
Chlorobenzene	108-90-7	< 5	5
Ethylbenzene	100-41-4	< 5	5
Styrene	100-42-5	< 5	5
Total Xylenes		< 5	5

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 624

Analyst: K. Kline

Verified:

Date Reported: March 15, 1988

Respectfully submitted,

*Keith S. Kline*

Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-82  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 11, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477D

1 of 3

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation  
Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477D

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10*	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10*	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477D

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a)anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10	10
Benzo(b)fluoranthene	205-99-2	<10	10
Benzo(k)fluoranthene	207-08-9	<10	10
Benzo(a)pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

Kath S. Kline  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-82 II  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 16, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477D2

1 of 3

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10*	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation  
Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477D2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10*	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477D2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a) anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10	10
Benzo(b) fluoranthene	205-99-2	<10	10
Benzo(k) fluoranthene	207-08-9	<10	10
Benzo(a) pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

Ketch S. Kline  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-83  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 9, 1988  
Date Sample Analyzed: March 11, 1988

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. 80477-5

1 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Aldrin	309-00-2	<1	1
Dieldrin	60-57-1	<1	1
Chlordane	57-74-9	<1	1
4,4'-DDT	50-29-3	<1	1
4,4'-DDE	72-55-9	<1	1
4,4'-DDD	72-54-8	<1	1
Endosulfan I	959-98-8	<1	1
Endosulfan II	33213-65-9	<1	1
Heptachlor epoxide	1024-57-3	<1	1
alpha-BHC	319-84-6	<1	1
beta-BHC	319-85-7	<1	1
gamma-BHC (Lindane)	58-89-9	<1	1
delta-BHC	319-86-8	<1	1

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. 80477-5

2 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
PCB-1242	53469-21-9	<1	1
PCB-1254	11097-69-1	<1	1
PCB-1221	11104-28-2	<1	1
PCB-1232	11141-16-5	<1	1
PCB-1248	12672-29-6	<1	1
PCB-1260	11096-82-5	<1	1
PCB-1016	12674-11-2	<1	1
Toxaphene	8001-35-2	<1	1
Endosulfan Sulfate	1031-07-8	<1	1
Endrin	72-20-8	<1	1
Endrin Aldehyde	53494-70-5	<1	1
Heptachlor	76-44-8	<1	1

\* Analyte detected at levels below Quantitation Limit  
Analytical Method: EPA Method 608

Analyst: J. Finks  
Verified:  
Date Reported: March 14, 1988

Respectfully submitted,

Kath S. Klein  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-83  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Analyzed: March 10, 1988

VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477E

1 of 2

<u>Analyte</u>	<u>CAS Number</u>	<u>Concentration (ug/L)</u>	<u>Quantitation Limit (ug/L)</u>
Chloromethane	74-87-3	<10	10
Bromomethane	74-83-9	<10	10
Vinyl Chloride	75-01-4	<10	10
Chloroethane	75-00-3	<10	10
Methylene Chloride	75-09-2	< 5*	5
Acetone	67-64-1	<10*	10
Carbon Disulfide	75-15-0	< 5	5
1,1-Dichloroethene	75-35-4	< 5	5
1,1 Dichloroethane	75-35-3	< 5	5
Trans-1,2-Dichloroethene	156-60-5	< 5	5
Chloroform	67-66-3	< 5	5
1,2-Dichloroethane	107-06-2	< 5	5
2-Butanone	78-93-3	<10*	10
1,1,1-Trichloroethane	71-55-6	< 5*	5
Carbon Tetrachloride	56-23-5	< 5	5
Vinyl Acetate	108-05-4	<10	10
Bromodichloromethane	75-27-4	< 5	5
1,2-Dichloropropane	78-87-5	< 5	5

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477E

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Trans-1, 3-Dichloropropene	10061-02-6	< 5	5
Trichloroethene	79-01-6	< 5*	5
Dibromochloromethane	124-48-1	< 5	5
1,1,2-Trichloroethane	79-00-5	< 5	5
Benzene	71-43-2	< 5	5
cis-1,3-Dichloropropene	10061-01-5	< 5	5
2-Chloroethylvinylether	110-75-8	<10	10
Bromoform	75-25-2	< 5	5
4-Methyl-2-Pentanone	591-78-6	<10	10
2-Hexanone	108-10-1	<10	10
Tetrachloroethene	127-18-4	< 5	5
1,1,2,2-Tetrachloroethane	79-34-5	< 5	5
Toluene	108-88-3	< 5*	5
Chlorobenzene	108-90-7	< 5	5
Ethylbenzene	100-41-4	< 5	5
Styrene	100-42-5	< 5	5
Total Xylenes		< 5	5

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 624

Analyst: K. Kline

Verified:

Date Reported: March 15, 1988

Respectfully submitted,

Keith S. Kline  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-83  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 11, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477E

1 of 3

<u>Analyte</u>	<u>CAS Number</u>	<u>Concentration (ug/L)</u>	<u>Quantitation Limit (ug/L)</u>
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation  
Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477E

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10*	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10*	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477E

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a)anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10	10
Benzo(b)fluoranthene	205-99-2	<10	10
Benzo(k)fluoranthene	207-08-9	<10	10
Benzo(a)pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

*Keith S. Kline*  
 Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-83 II  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 16, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477E2

1 of 3

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation  
Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477E2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10*	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10*	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477E2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a)anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10*	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10	10
Benzo(b)fluoranthene	205-99-2	<10	10
Benzo(k)fluoranthene	207-08-9	<10	10
Benzo(a)pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

*Keith S. Klein*

Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: OFWBLANK 309  
Sample Matrix: Water  
Date Sample Extracted: March 9, 1988  
Date Sample Analyzed: March 9, 1988

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. OFWBLANK 309

1 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Aldrin	309-00-2	<1	1
Dieldrin	60-57-1	<1	1
Chlordane	57-74-9	<1	1
4,4'-DDT	50-29-3	<1	1
4,4'-DDE	72-55-9	<1	1
4,4'-DDD	72-54-8	<1	1
Endosulfan I	959-98-8	<1	1
Endosulfan II	33213-65-9	<1	1
Heptachlor epoxide	1024-57-3	<1	1
alpha-BHC	319-84-6	<1	1
beta-BHC	319-85-7	<1	1
gamma-BHC (Lindane)	58-89-9	<1	1
delta-BHC	319-86-8	<1	1

PRIORITY POLLUTANTS  
PESTICIDES/PCBS  
ANALYTICAL RESULTS

ATEC Lab No. OFWBLANK 309

2 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
PCB-1242	53469-21-9	<1	1
PCB-1254	11097-69-1	<1	1
PCB-1221	11104-28-2	<1	1
PCB-1232	11141-16-5	<1	1
PCB-1248	12672-29-6	<1	1
PCB-1260	11096-82-5	<1	1
PCB-1016	12674-11-2	<1	1
Toxaphene	8001-35-2	<1	1
Endosulfan Sulfate	1031-07-8	<1	1
Endrin	72-20-8	<1	1
Endrin Aldehyde	53494-70-5	<1	1
Heptachlor	76-44-8	<1	1

\* Analyte detected at levels below Quantitation Limit  
Analytical Method: EPA Method 608

Analyst: J. Finks  
Verified:  
Date Reported: March 14, 1988

Respectfully submitted,

Kerth S. Kline  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: Method Blank  
Sample Matrix: Water  
Date Sample Analyzed: March 10, 1988

**VOLATILE COMPOUNDS**  
**ANALYTICAL RESULTS**

ATEC Lab No. BLANK 31088

1 of 2

<u>Analyte</u>	<u>CAS Number</u>	<u>Concentration (ug/L)</u>	<u>Quantitation Limit (ug/L)</u>
Chloromethane	74-87-3	<10	10
Bromomethane	74-83-9	<10	10
Vinyl Chloride	75-01-4	<10	10
Chloroethane	75-00-3	<10	10
Methylene Chloride	75-09-2	< 5*	5
Acetone	67-64-1	<10*	10
Carbon Disulfide	75-15-0	< 5	5
1,1-Dichloroethene	75-35-4	< 5	5
1,1 Dichloroethane	75-35-3	< 5	5
Trans-1,2-Dichloroethene	156-60-5	< 5	5
Chloroform	67-66-3	< 5	5
1,2-Dichloroethane	107-06-2	< 5	5
2-Butanone	78-93-3	<10*	10
1,1,1-Trichloroethane	71-55-6	< 5	5
Carbon Tetrachloride	56-23-5	< 5	5
Vinyl Acetate	108-05-4	<10	10
Bromodichloromethane	75-27-4	< 5	5
1,2-Dichloropropane	78-87-5	< 5	5

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. BLANK 31088

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Trans-1, 3-Dichloropropene	10061-02-6	< 5	5
Trichloroethene	79-01-6	< 5*	5
Dibromochloromethane	124-48-1	< 5	5
1,1,2-Trichloroethane	79-00-5	< 5	5
Benzene	71-43-2	< 5	5
cis-1,3-Dichloropropene	10061-01-5	< 5	5
2-Chloroethylvinylether	110-75-8	<10	10
Bromoform	75-25-2	< 5	5
4-Methyl-2-Pentanone	591-78-6	<10	10
2-Hexanone	108-10-1	<10	10
Tetrachloroethene	127-18-4	< 5	5
1,1,2,2-Tetrachloroethane	79-34-5	< 5	5
Toluene	108-88-3	< 5	5
Chlorobenzene	108-90-7	< 5	5
Ethylbenzene	100-41-4	< 5	5
Styrene	100-42-5	< 5	5
Total Xylenes		< 5	5

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 624

Analyst: K. Kline

Verified:

Date Reported: March 15, 1988

Respectfully submitted,

*Keith S. Kline*  
 Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: Extraction Blank  
Sample Matrix: Water  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 11, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. OFW308882

1 of 3

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. OFW308882

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10*	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. OFW308882

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10*	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10*	10
Anthracene	120-12-7	<10*	10
Di-n-Butylphthalate	84-74-2	<10*	10
Fluoranthene	206-44-0	<10*	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a) anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10*	10
Benzo(b) fluoranthene	205-99-2	<10	10
Benzo(k) fluoranthene	207-08-9	<10	10
Benzo(a) pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

*Keith S Kline*  
 Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-82, Duplicate  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Analyzed: March 10, 1988

VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477D DUP

1 of 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Chloromethane	74-87-3	<10	10
Bromomethane	74-83-9	<10	10
Vinyl Chloride	75-01-4	<10	10
Chloroethane	75-00-3	<10	10
Methylene Chloride	75-09-2	< 5*	5
Acetone	67-64-1	<10*	10
Carbon Disulfide	75-15-0	< 5	5
1,1-Dichloroethene	75-35-4	< 5	5
1,1 Dichloroethane	75-35-3	< 5	5
Trans-1,2-Dichloroethene	156-60-5	< 5	5
Chloroform	67-66-3	< 5	5
1,2-Dichloroethane	107-06-2	< 5	5
2-Butanone	78-93-3	<10*	10
1,1,1-Trichloroethane	71-55-6	< 5	5
Carbon Tetrachloride	56-23-5	< 5	5
Vinyl Acetate	108-05-4	<10	10
Bromodichloromethane	75-27-4	< 5	5
1,2-Dichloropropane	78-87-5	< 5	5

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477D DUP

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Trans-1, 3-Dichloropropene	10061-02-6	< 5	5
Trichloroethene	79-01-6	< 5*	5
Dibromochloromethane	124-48-1	< 5	5
1,1,2-Trichloroethane	79-00-5	< 5	5
Benzene	71-43-2	< 5	5
cis-1,3-Dichloropropene	10061-01-5	< 5	5
2-Chloroethylvinylether	110-75-8	<10	10
Bromoform	75-25-2	< 5	5
4-Methyl-2-Pentanone	591-78-6	<10	10
2-Hexanone	108-10-1	<10	10
Tetrachloroethene	127-18-4	< 5	5
1,1,2,2-Tetrachloroethane	79-34-5	< 5	5
Toluene	108-88-3	< 5*	5
Chlorobenzene	108-90-7	< 5	5
Ethylbenzene	100-41-4	< 5	5
Styrene	100-42-5	< 5	5
Total Xylenes		< 5	5

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 624

Analyst: K. Kline

Verified:

Date Reported: March 15, 1988

Respectfully submitted,

Keith S. Kline  
Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: DUP S-80  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 10, 1988

SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS

ATEC Lab No. 80477B DUP

1 of 3

<u>Analyte</u>	<u>CAS Number</u>	<u>Concentration (ug/L)</u>	<u>Quantitation Limit (ug/L)</u>
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477B DUP

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10*	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477B DUP

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a)anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10	10
Benzo(b)fluoranthene	205-99-2	<10	10
Benzo(k)fluoranthene	207-08-9	<10	10
Benzo(a)pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

*Keith S. Kline*  
 Environmental/Analytical Testing Division

Client: Roy F. Weston, Inc.  
Client Address: Sper Division  
111 North Canal Street  
Suite 855  
Chicago, IL 60606

Client Sample Identification: S-80, DUP II  
Sample Matrix: Water  
Date Sample Collected: March 2, 1988  
Date Sample Received: March 4, 1988  
Date Sample Extracted: March 8, 1988  
Date Sample Analyzed: March 16, 1988

**SEMI-VOLATILE COMPOUNDS  
ANALYTICAL RESULTS**

ATEC Lab No. 80477B DUP 2

1 of 3

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
Phenol	108-95-2	<10	10
bis(2-Chloroethyl) Ether	111-44-4	<10	10
2-Chlorophenol	95-57-8	<10	10
1,3-Dichlorobenzene	541-73-1	<10	10
1,4-Dichlorobenzene	106-46-7	<10	10
Benzyl Alcohol	100-51-6	<10	10
1,2-Dichlorobenzene	95-50-1	<10	10
2-Methylphenol	95-48-7	<10	10
bis(2-chloroisopropyl) Ether	39638-32-9	<10	10
4-Methylphenol	106-44-5	<10	10
N-Nitroso-Di-n-Propylamine	621-64-7	<10	10
Hexachloroethane	67-72-1	<10	10
Nitrobenzene	98-95-3	<10	10
Isophorone	78-59-1	<10	10
2-Nitrophenol	88-75-5	<10	10

\* Analyte detected but amount present is less than the quantitation  
Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477B DUP 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
2,4-Dimethylphenol	105-67-9	<10	10
Benzoic Acid	65-85-0	<50	50
bis(2-Chloroethoxy) Methane	111-91-1	<10	10
2,4-Dichlorophenol	120-83-2	<10	10
1,2,4-Trichlorobenzene	120-82-1	<10	10
Naphthalene	91-20-3	<10*	10
4-Chloroaniline	106-47-8	<10	10
Hexachlorobutadiene	87-68-3	<10	10
4-Chloro-3-Methylphenol	59-50-7	<10	10
2-Methylnaphthalene	91-57-6	<10	10
Hexachlorocyclopentadiene	77-47-4	<10	10
2,4,6-Trichlorophenol	88-06-2	<10	10
2,4,5-Trichlorophenol	95-95-4	<50	50
2-Chloronaphthalene	91-58-7	<10	10
2-Nitroaniline	88-74-4	<50	50
Dimethyl Phthalate	131-11-3	<10	10
Acenaphthylene	208-96-8	<10	10
3-Nitroaniline	99-09-2	<50	50
Acenaphthene	83-32-9	<10	10
2,4-Dinitrophenol	51-28-5	<50	50
4-Nitrophenol	100-02-7	<50	50
Dibenzofuran	132-64-9	<10	10
2,4-Dinitrotoluene	121-14-2	<10	10
2,6-Dinitrotoluene	606-20-2	<10	10
Diethylphthalate	84-66-2	<10	10
4-Chlorophenyl-phenylether	7005-72-3	<10	10
Fluorene	86-73-7	<10	10
4-Nitroaniline	100-01-6	<50	50
4,6-Dinitro-2-Methylphenol	534-52-1	<50	50
N-Nitrosodiphenylamine	86-30-6	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

## ANALYTICAL RESULTS

ATEC Lab No. 80477B DUP 2

Analyte	CAS Number	Concentration (ug/L)	Quantitation Limit (ug/L)
4-Bromophenyl-phenylether	101-55-3	<10	10
Hexachlorobenzene	118-74-1	<10	10
Pentachlorophenol	87-86-5	<50	50
Phenanthrene	85-01-8	<10	10
Anthracene	120-12-7	<10	10
Di-n-Butylphthalate	84-74-2	<10	10
Fluoranthene	206-44-0	<10	10
Pyrene	129-00-0	<10	10
Butylbenzylphthalate	85-68-7	<10	10
3,3'-Dichlorobenzidine	91-94-1	<20	20
Benzo(a)anthracene	56-55-3	<10	10
bis(2-ethylhexyl)phthalate	117-81-7	<10	10
Chrysene	218-01-9	<10	10
Di-n-octyl Phthalate	117-84-0	<10	10
Benzo(b)fluoranthene	205-99-2	<10	10
Benzo(k)fluoranthene	207-08-9	<10	10
Benzo(a)pyrene	50-32-8	<10	10
Indeno(1,2,3-cd)pyrene	193-39-5	<10	10
Dibenz(a,h)anthracene	53-70-3	<10	10
Benzo(g,h,i)perylene	191-24-2	<10	10

\* Analyte detected but amount present is less than the Quantitation Limit.

Analytical Method: EPA Method 625

Analyst: J. Sima

Verified:

Date Reported: March 17, 1988

Respectfully submitted,

Keith S. Kline  
Environmental/Analytical Testing Division